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## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's o r agent' s file reference 1640-110.PCT		ent's file reference	FOR FURTHER ACTION		ration of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5				
International application No. PCT/US03/25188			International filing date (day/month/year) 13 August 2003 (13.08.2003)		(Earliest) Priority Date (day/month/year) 16 August 2002 (16.08.2002)				
Applicant BISMUTH CARTRIDGE COMPANY									
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This international search report consists of a total of <b>2</b> sheets.  It is also accompanied by a copy of each prior art document cited in this report.									
<ol> <li>Basis of the Report         <ul> <li>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol>									
t	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:								
	cont	contained in the international application in written form.							
	filed	filed together with the international application in computer readable form.							
	furn	furnished subsequently to this Authority in written form.							
	furn	furnished subsequently to this Authority in computer readable form.							
		the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
•	the statement that the information recorded in computer readable form is identical to the written been furnished.								
2.	Cer	tain claims were found	unsearchable (See Box I).		·				
3. 4.		Unity of invention is lacking (See Box II).  egard to the title,							
	the t	ext is approved as subn	nitted by the applicant.		·				
	the	ext has been established	by this Authority to read as follows	s:	·				
5.									
	the	the text is approved as submitted by the applicant.							
		the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6.	The figure o	he figure of the drawings to be published with the abstract is Figure No							
	as s	uggested by the applica	nt.		None of the figures				
	bec	ause the applicant failed	to suggest a figure.						
	bec	ause this figure better cl	haracterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/US03/25188

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : 86/51  US CL : B21K 21/06  According to International Patent Classification (IPC) or to both national classification and IPC									
	DS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols) U.S.: B21K 21/06									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where a	Relevant to claim No.							
Y	US 5,528,989 A (BRIESE) 25 June 1996 (25.06.199	6), Figs.	1-7; col. 2, II. 10-18, 45-64;	16-20					
Y	col. 5, line 45 to col. col. 7, line 14. US 5,917,143 A (STONE) 29 June 1999 (29.06.199	12, 14, 15, 16-20							
Y	US 6,115,894 A (HUFFMAN) 12 Sep. 2000 (12.09	12, 14, 15,							
Y	WO 96/23193 (SCHROEDER) 01 Aug 1996 (01.08	15							
Further	Further documents are listed in the continuation of Box C. See patent family annex.								
Special categories of cited documents:     "T" later document published after the international filing date or produced and not in conflict with the application but cited to understand the product of the product									
	defining the general state of the art which is not considered to be		principle or theory underlying the inve						
"E" earlier ap	document of particular relevance; the considered novel or cannot be conside when the document is taken alone								
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination						
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	ne art					
priority d	t published prior to the international filing date but later than the late claimed	-&"	·						
Date of the actual completion of the international search  Date of mailing of the actual completion of the international search  Date of mailing of the actual completion of the international search  November 2004 (08.11.2004)									
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Authorized officer  Troy Chambers									
F.O. Box 1430 Alexandria, Virginia 22313-1450  Facsimile No. (703)305-3230  V Telephone No. 703-308-5870									

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